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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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05/21/2002

Yukoh Hiei

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EXAMINER

WORLEY, CATHY KINGDON

ART UNIT

PAPER NUMBER

1638

NOTIFICATION DATE

DELIVERY MODE

03/20/2009

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

Interview Summary	Application No. 10/089,695	Applicant(s) HIEI ET AL.	
	Examiner CATHY K. WORLEY	Art Unit 1638	

All participants (applicant, applicant's representative, PTO personnel):

(1) Cathy K. Worley. (3) ____.

(2) Linda T. Parker. (4) ____.

Date of Interview: 12 March 2009.

Type: a) ☐ Telephonic b) ☐ Video Conference
c) ☒ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.
If Yes, brief description: ____.

Claim(s) discussed: All.

Identification of prior art discussed: Hansen (WO 98/54961).

Agreement with respect to the claims f) ☐ was reached. g) ☐ was not reached. h) ☒ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: See Continuation Sheet.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

/Cathy K. Worley/ Primary Examiner, Art Unit 1638	
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Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments:

The attorney for the Applicant, Linda T. Parker, wanted to discuss what type of data would be sufficient to overcome the rejections. The Examiner stated that data should be commensurate in scope with the claims.

The attorney had new data regarding centrifugation at speeds up to 110,000 x G; and the Examiner said this would be sufficient to overcome that portion of the scope of enablement rejection. However, the length of time for centrifugation in the current claims extends to 4 hours, and the data of record are not commensurate in scope with the range from 1 second to 4 hours; therefore, data demonstrating longer periods of centrifugation would be necessary to enable the breadth of the claims.

With regard to the heating, the attorney and the Examiner discussed the scope of the claims relative to the data submitted with the declaration on Oct. 24, 2008, and the Examiner believes that the temperature range is enabled, however, the incubation time (from 1 min. to 24 hours) is not supported by the data of record. The attorney pointed out that one of ordinary skill would understand that if the temperature is higher a shorter incubation time would suffice, whereas a lower temperature would require a longer incubation time. The Examiner agreed that, with regard to Enablement, this logic would apply. However, the longest time period for which any data are available is 2 hours, and the claims extend all the way to 24 hours; therefore the claims are not commensurate in scope with the data.

The Examiner asserted that the more difficult issue is the issue of obviousness. The attorney pointed out that the instant specification shows unexpected results for maize embryos that were treated at 46 degrees for 3 minutes which is very similar to the art applied (Hansen) which taught maize calli heated at 45 degrees for 4 minutes. The Examiner agreed that the temperature and time were close enough to be considered comparable, however, the Examiner would require a reason to believe that the result from an immature embryo can be extended to calli in order to overcome this particular rejection by relying on unexpected results.

The Examiner pointed out that if the Hansen reference is overcome by a showing of unexpected results, specifically for maize calli at 45 degrees for 4 minutes; then the Examiner would be required to search for art on other tissues, temperatures, and incubation times, to ensure that the entire breadth of the claims is truly free of the art. The Examiner pointed out that part of the problem is that the unexpected results relied upon to overcome the art are only achieved with certain combinations of incubation times and temperatures; whereas, some combinations of times and temperatures that are encompassed by the current claims (ie. 37 degrees for 10 minutes) do not produce the unexpected result. In order to overcome an obviousness rejection based on unexpected results the claims need to be commensurate in scope with the unexpected results, and this is problematic in the instant case.

The Examiner agreed that the Applicant has shown superior results with the working examples, and there is definitely allowable subject matter in the instant application. The difficulty is in figuring out how to write claims that are broader in scope than the working examples without introducing new matter and in a way that renders the claims unobvious over the prior art.